# Aerial Extinguishing System

## Description

KGT aerial fire extinguishing system is a new type of all-weather, all-environment, multi-purpose aerial fire extinguishing product specially designed and developed for aerial fire extinguishing operations. The product mainly consists of airborne aerial fire extinguishing bombs, photoelectric pods, ground command and control system, and can be widely used in forest and grassland, chemical parks, oil and electricity pipeline networks and other fire prevention and extinguishing scenarios with high risk, high time-sensitivity, and the need for rapid response and manual replacement. The system is flexible in application, rapid deployment, rapid transfer, and highly scalable in functionality, which can realize the demand of fire extinguishing tasks in multiple scenes, multiple terrains and large areas.

## Product Characteristics

■ Precise guidance, high accuracy of landing point, it can achieve efficient and intelligent dispersion of fire extinguishing agent

■ Airborne launch, long range maneuvering, fast response, free from terrain and fire turbulence

■ Serialized products can be flexibly configured, suitable for a variety of forest fire fighting, reducing casualties of firefighters

■ Customized high-efficiency instantaneous fire extinguishing agent, rapid chain reaction penetrating the fire scene, efficient fire-retardant cooling, safety and environmental protection

## Features

■ Customized high-efficiency fire extinguishing agent, which is environment protection and 100% biodegradable, and it has the characteristics of high-efficiency flame retardant, strong anti-combustion, fast fire extinguishing speed and strong penetration, etc. The fire extinguishing level can reach 4A/24B.

■ Two types of aerial fire-fighting bombs are available for different fire-fighting needs: drop-in and guided.

■ The matching UAV has the rapid real-time inspection and monitoring capability, independent of terrain and fire turbulence.

■ Equipped with a three-in-one photoelectric pod visible, ultraviolet, infrared three-way image, large area image detection and target identification, real-time transmission back to the command center.

■ Advanced ground command system artificially corrects the position of the detection camera's center point to align more accurately with the center point of the single/multiple fire area under visualization.

■ Integrating multiple global spatio-temporal data sources and real-time access to Himawari, the fire point data is updated every 10 minutes to provide data support.

KGT aerial fire extinguishing system is designed and developed for aerial fire extinguishing operation, which can achieve multi-terrain and large-area fire extinguishing tasks through air blasting and dispersion. Users can set the parameters independently according to the actual operational needs to achieve fixed height and time blasting dispersion spraying. The body control system is equipped with safety protection devices to ensure user safety in use and transportation to a greater extent.

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## Technical Parameter

| Model | MHD-25 | MHD-07 |
|---|---|---|
| Name | 25KG draped type | 25KG guided type |
| Extinguishing Agent Type | water-based | water-based |
| Shell Material | Degradable biomaterials | Degradable biomaterials |
| Volume | 25L | 16L |
| Release Type | Vertical positioning | Inertial navigation + satellite |
| Accuracy | 2m*2m | - |
| Release Altitude | - | 100~1500m |
| Guiding Accuracy | - | ≤5m |
| Operating Type | Aerial Blasting | Aerial Blasting |
| Blasting mode | Settable time and height | Settable time and height |
| Spray Radius | ≧15m | - |
| Flying distance | - | ≤2000m |
| Extinguishing area | 50-80m$^2$ | ≥120m$^2$ |
| Operating temperature | -20°C~55°C | -20°C~55°C |
| Extinguishing Level | 4A/24B | 4A/24B |
| Response Time | ≤5 minutes | ≤5 minutes |
| Validity/Shelf life | 2 years | 2 years |
| Length | 600mm | 1500mm |
| Diameter | 265mm | 220mm |